SVW901 Wifi SIP Phone User Manual

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1 User Interface

The use interface consists of a 18 keys keypad , a 5 way navigation key, microphone, speakers and a color LCD screen.

1.1 LCD screen

1.2 Keys

- LEFT SOFT KEY
- RIGHT SOFT KEY
- 0,1,2,3,4,5,6,7,8,9,*,# keys
- TALK ON (GREEN)
- TALK OFF/ POWER (RED)
- VOL UP
- VOL DOWN

Navigation key:

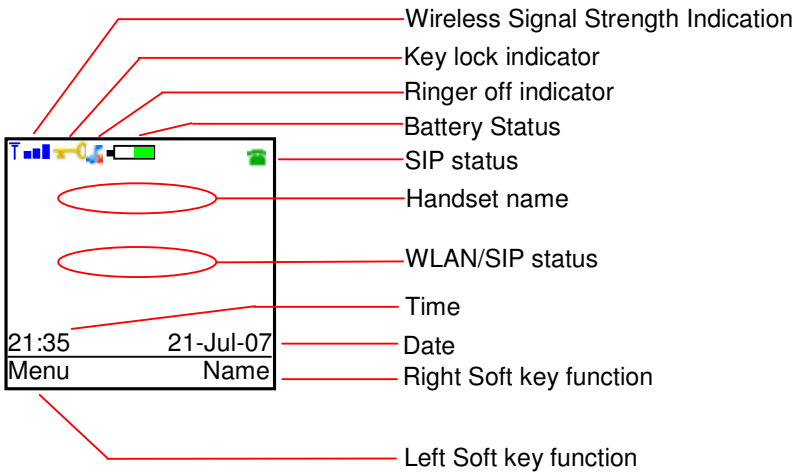
- UP
- DOWN
- LEFT
- RIGHT

- ENTER

Menu navigation can be done with the navigation menu completely:
RIGHT Go one level deeper in the menu
LEFT Go one level back in the menu
UP/DOWN Walk through the items
ENTER Select menu item (also one level deeper in the menu)

To escape the graphical menu the LEFT key should be held for 2 seconds (or press Back key or press RED key).
The RED key can be used in any menu to quit the menu and return to the idle screen.

1.3 Idle screen



In idle mode the above screen is displayed (depending on the status).

1.3.1 Keylock

By pressing the # key for 2 seconds the keyboard will be locked and an key icon will be visible in the screen. Pressing the # key again for 2 seconds will unlock the keyboard and the icon will disappear (remark: # key for 2 seconds is to be defined)

1.3.2 Handset name

If a text was entered in the handset menu (Phone Settings, Display Settings, Handset Name) then this name will be displayed in the idle screen.

1.3.3 Silent mode

If the ringer volume was set off (Phone settings, Ring Settings, Volume) the silent mode icon will be display on top of the screen. The silent mode can be toggled from the idle screen by pressing the * key for 2 seconds.

1.3.4 Battery status

The battery is constantly monitored and its status is displayed in the screen. If the battery is almost empty the icon will change color to orange.

1.3.5 Direct menu's

With the navigation key it is possible to enter some menu's directly from the idle screen.

RIGHT enters the call log menu
LEFT enters the SIP profile menu
UP enters the dialed calls log menu
DOWN enters the phonebook menu directly

2 Battery

2.1 Installing the battery

2.2 Charging the battery

Charging the battery is done through the USB connector. A USB cable is delivered with the SVW901 to connect to the adapter or the PC's USB bus.

Charging time for the battery will depend on the status of the battery. For an empty battery it will take approx. 5 hours to charge it to full.

3 Powering on/off

In Off mode:
Pressing the TALK OFF key for about 1 (TBD) second will switch on your telephone. A welcome screen will appear with a rotating wheel to indicate that it is busy. After a short while it will come up with the idle screen (see 0). If a default AP was configured before then it will try to connect to it, the status of this process will be indicated in the screen.

In On mode:
Pressing the TALK OFF key for 2 (TBD) seconds will switch off the phone.

4 First time start-up

Remark:
The Phone requires a wireless connection to an access point to be able to make or answer calls.

When powering on SVW901 for the first time there are no preferred networks in the phone memory. After having connected to a network

5 Connect to a network

After a search for networks a list is shown with the available networks. An icon in front of the network name indicates whether it is open or secured. Select the network you want and try to connect. If the network is secured then SVW901 will prompt you to enter a key.

After successful registration to the network SVW901 will ask you to make this the default connection. By confirming it will search and connect to this network automatically next time SVW901 is powered on.

6 Enter your SIP account

Before using SVW901 for making or receiving calls you will have to enter your SIP provider's account. Goto Settings, Profile Settings and chose New Profile. Now select Options (or right on navigation key).

Edit SIP: enter your SIP username
Edit Domain: enter the SIP domain URL or IP
Edit Out Proxy: enter the SIP proxy server URL or IP
Edit Stun: enter the SIP stun server URL or IP

Now press Save to store the settings.

7 Conversation modes

By pressing the Left soft key (Options) a menu is opened. The choices here are Handsfree and Mute.

Handsfree

In conversation it is possible to toggle between earpiece and handsfree. This can be done by pressing the Green button (Talk on key) or to select this from the call menu.
A speaker icon will inform the user that Handsfree mode is active.

Mute
In the menu the microphone mute can be activated or deactivated. An icon will inform the user that mute is active.
The Right soft key will open the phonebook.
The volume keys can be used to adjust volume through the speaker.

7.1 Make a call

Making a call can be done in several ways: By entering the destination number first, by selecting someone in your phonebook, by selecting someone in your call log. For all these possibilities counts that if the name or number is in the display then by pressing the TALK ON button the number will be called.
Direct calling can be done by entering one of the following:

- Telephone number
- SIP account
- IP address

7.2 Answer a call

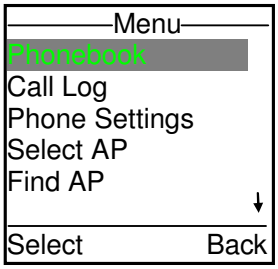
If an incoming call is available the SVW901 will indicate this by making a ring sound. If available the Caller ID is displayed on the screen. The user now can answer the phone by pressing the TALK ON key.

8 Menu

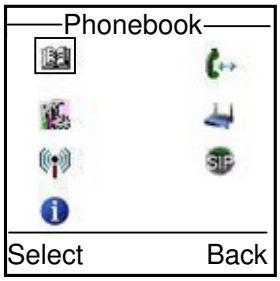
By pressing the Menu key (Left Soft Key) in the Idle screen the main menu is shown.

Main Menu:

- Phonebook
- Call Log
- Phone Settings
- Select AP
- Find AP
- Select Profile
- Information



Screen Text Menu



Screen Graphical Menu

8.1 Phonebook

List of all your contacts is displayed. Use up/Down to select entry. By pressing the Options key the following submenu is shown:

- New Entry
- Edit
- Delete
- Delete All

8.1.1 New Entry

Screen for entering name, SIP account, telephone number or IP address. First the name has to be entered. If done then press DOWN key and use LEFT/RIGHT key to select SIP, No or IP. If chosen then press DOWN key to enter the appropriate entry type.

Name:
Enter name here
SIP No IP
entry type is SIP address if SIP is selected, telephone number if No is selected, IP address if IP is selected.

Press SAVE to save and exit.

Example for contacts:
Name: Reeg
SIP account: reeg@voipcheap.com

Name: Reeg
Phone number: 0123456789

Name: Reeg
IP: 200.300.10.9

8.1.2 Edit

Screen for editing name, SIP account, telephone number or IP address. The name is displayed and can be modified. If done then press DOWN key and use LEFT/RIGHT key to select SIP, No or IP. If chosen then press DOWN key to enter the appropriate entry type.

Name:
Enter name here
SIP No IP
entry type is SIP address if SIP is selected, telephone number if No is selected, IP address if IP is selected.

Press SAVE to save and exit.

8.1.3 Delete

Dialog:
Delete entry name?
Yes/ No

8.1.4 Delete All
Dialog:
Do you really want to delete all the phonebook entries?
Yes/ No

8.2 Call Log

Submenu:
- Received Calls
- Missed Calls
- Dialed Calls

8.2.1 Received Calls
List of received calls is shown. By pressing the TALK ON key the selected number is dialed.

8.2.2 Missed Calls
List of missed (unanswered) calls is shown. By pressing the TALK

ON key the selected number is dialed.

8.2.3 Dialed Calls

List of dialed calls is shown. By pressing the TALK ON key the selected number is dialed.

8.3 Phone Settings

Submenu:

- Language
- Ring Settings
- Time/Date
- Profile Settings
- Audio Settings
- Display Settings
- AP Settings
- Master Reset
- Firmware Upgrade

8.3.1 Language

- English (default)
- Francais
- Espagnol

Other languages to be defined.

8.3.2 Ring Settings

Submenu:

- Tone
- Volume
- Vibrator

8.3.2.1 Tone

Radio button menu:

Simple Ring
Wav Ring

8.3.2.2 Volume

Graphical view for 5 volume settings DD-MM-YY
DD.MM.YY
YY-MM-DD

8.3.2.3 Vibrator

Radio button menu:
Off
On

8.3.3 Time/Date

Submenu:
Set Time
Time Format
Set Date
Date Format

8.3.3.1 Set Time

Menu for entering time according to set time format.

8.3.3.2 Time Format

Radio button menu:
24 hours
am/pm

8.3.3.3 Set Date

Menu for entering time according to set date format.

8.3.3.4 Date Format

Radio button menu:

01-Jan-00
DD/MM/YY
MM/DD/YY
DD-MM-YY
DD.MM.YY
YY-MM-DD

8.3.4 Profile Settings

Submenu:

Profile 1
Profile 2
Profile n
New Profile

These are for VOIP profiles.

8.3.4.1 Profile n

Submenu:

Edit SIP
Edit Registrar
Edit Proxy
Edit STUN
Save
Save As…
Delete
Set Active

8.3.4.2 New Profile

Submenu:

Edit SIP
Edit Registrar

Edit Proxy
Edit STUN
Save
Save As…
Delete
Set Active

8.3.5 Audio Settings

Checkbox menu:

Keypad Tone
Range Warning
Battery Low

8.3.6 Display Settings

Submenu:

Handset Name
Backlight Duration
Graphical Menu

8.3.6.1 Handset Name

Menu to enter a name for the handset. The name will be displayed in the idle screen.

8.3.6.2 Backlight Duration

Radio button menu:

5s
10s
20s
40s

8.3.6.3 Graphical Menu

Radio button menu:

Off
On

8.3.7 AP Settings
Shows the connected Access Point SID. Pressing RIGHT or Options key opens the following menu:

8.3.7.1 IP Settings
Radio button menu:
DHCP
Static

By selecting Static one has to enter the IP address.

8.3.7.2 Delete
To delete this setting.

8.3.8 Master Reset
Dialog:
Reset all settings to factory defaults. Continue?
Yes/ No

8.3.9 Firmware Upgrade
Dialog:
Phone must be connected to computer. Phone will now power down.
Continue / Cancel

8.4 Select AP
The available Access Points are shown.

8.5 Find AP

After selecting this menu item it will search for available Access Points. An icon in front of the found AP name indicates whether it is an open or secured AP.

After pressing select there will be tried to connect to the AP. If it is a secure AP a screen will appear to enter the appropriate key (WEP, WPA).

If the AP was successfully connected then the user will be asked to make this the default connection. User can confirm or not.

8.6 Select Profile

8.7 Information

Displays some information about the SVW901, like IP address, AP name, SIP account name and firmware version.

Appendix A: Specifications

Wireless Characteristics
> Signal type: 802.11b/g
> 802.11b Data Rate: 1, 2, 5.5, 11 Mbps
> 802.11g Data Rate: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

Operating Frequencies
> USA/Canada: 2.412 – 2.462 GHz (11 channels)
> Europe: 2.412 – 2.472 GHz (13 channels)
> Japan: 2.412 – 2.472 and 2,484 GHz (14 Channels)

VoIP Protocol
> IETF SIP (RFC3261)

LCD Display

> 128x128 pixels, 256 colors, 4 menu colors
> LED backlight

Keyboard

> 16 Keys
> Volume + and -
> 5 way navigation paddle
> Keyboard backlight

Call Features
> Call Hold
> Call Mute
> Caller ID Display
> Anonymous call (Conditional)
> Anonymous call blocking (Conditional)
> Message waiting indicator
> Redial

DTMF
> Out of band (RFC2833) (Check us)
> SIP Info

Codec
> G.711 u-law
> G.711 a-law
> G.729a/b (Check us)

Phone Functions
> Ring tone / Vibrator switch
> Key lock
> Pre-dial before sending

> Handset / Ring volume adjustment
> Speed dial: 10 records (conditional)
> Phonebook: 50 records
> Incoming call log
> Outgoing call log
> Missed call log

NAT Traversal
> STUN

Security
> MD5 for SIP authentication (RFC2617)
> IEEE 802.1x, 802.11i
> WEP 64/128 bit encryption
> WPA /WPA2

Dial methods
> Direct IP call without SIP registration
> Dial registered number via SIP server
> Dial URL from phone book / speed dial

Voice Quality
> Voice Activation Detection (VAD)
> Comfort Noise Generator (CNG)
> Acoustic Echo Cancellation (AEC)

Tones
> DTMF
> 10 Ring tones: WAV, 2 tone.
> Ring back tone
> Dial tone
> Busy tone

> Key tone

IP Assignment
> Static IP
> DHCP

TCP/IP
> UDP / DHCP / RTP / DNS

Environmental
> Operating temperature: 0 – 40C
> Storage temperature: -20 – 60C
> Operating humidity: 20 – 80%

Battery
> Li-polymer 500mAh, 3.7 Volts
> Talk time: 7 hours
> Standby time: 120 hours

Accessories
> Power adapter 500mA
> USB cable
Certification compliance
> FCC Part 15B / 15C
> CE Class B
> SAR
> EN60950

Applications
> Clock
> Calendar

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